

## **METHODS OF GROWING NITRIDE-BASED FILM USING VARYING PULSES**

### **ABSTRACT OF THE DISCLOSURE**

Nitride-based film is grown using multiple precursor fluxes. Each precursor flux is pulsed one or more times to add a desired element to the nitride-based film at a desired time. The quantity, duration, timing, and/or shape of the pulses is customized for each element to assist in generating a high quality nitride-based film.